SLINGSHOT BIOSCIENCES

TruCytes™ Potency CD19 Kit

Product Number: SL-00035, SL-00037, SL-00038, SL-00039

DESCRIPTION

Summary	TruCytes™ Potency CD19 Kit synthetic cells are lyophilized cell mimics that feature selected biomarkers for use in CAR-T potency assays. This product contains no bio-hazardous material, so it is safe to use in any environment and requires no special disposal. **For Research Use Only. Not for use in diagnostic or therapeutic procedures.**

PRODUCT DETAILS

Materials	TruCytes™ Potency CD19 are hydrogels that are in lyophilized form
Handling and Safety	This product contains no bio-hazardous material, so it is safe to use in any environment and requires no special disposal.
Shipping condition	The product is shipped on ice.
Storage	Store lyophilized products at -20°C upon receipt. The product is recommended to be used immediately upon reconstitution.
Expiration	1 year from the date of manufacturing in lyophilized form
Concentration	2M particles/vial
Product Format	3 sealed glass vials per kit
QC	IFNγ release from CAR-T

PREPARATION

Reconstitution: Reconstitute in desired buffer or media.

General Instructions for Use:

1. Tap down the vial to ensure that all cell mimics are collected at the bottom of the vial.
2. Add 1000 µL of media to the vial and transfer contents to 15mL conical tube. Add additional 1000 µL of media to vial, incubate 30 seconds to one minute, and transfer to same 15mL conical tube. Pellet cell mimics at 3000xg 3 mins room temperature.
3. Carefully remove supernatant from 1.5ml tube with 1000 µL pipette. Resuspend pellet in 1000 µL media, pellet as in (2).
4. Repeat step 3.
5. Carefully remove media and resuspend pellet in 1000 µL media. Remove sample and count particles using a flow cytometer, hemacytometer, or automated counting instrument that incorporates phase contrast imaging to identify cells.
    a. Note: If counts are performed on automated cell counter instrument with trypan blue exclusion, use total cell count. Automated cell counter instruments that rely exclusively on dye-based detection will require alternate methodology. Please reach out to Slingshot Biosciences for instrument-specific protocols or to discuss alternative options.
6. Pellet remaining sample as in (2), carefully remove supernatant, and resuspend mimics at desired concentration for assay.

Slingshot Biosciences, Inc. www.slingshotbio.com
1250 45th Street, Suite 330
Emeryville, CA 94608 USA

DATA

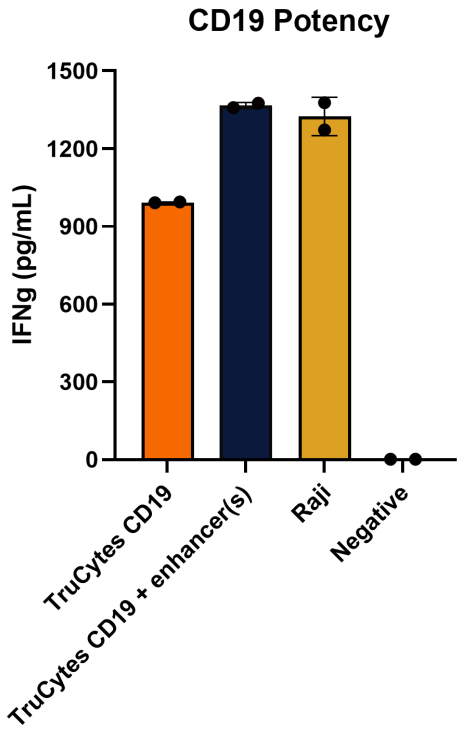

Figure 1. **Specific activation of CD19 CAR-T.** CD19 CAR-T were cultured at 1:1 E:T with TruCytes Potency negative (SL-00039), CD19 (SL-00037), and CD19 + enhancer(s) (SL-00038), or Raji cell line. Supernatant collected after 18 hours of culture was quantified for IFNγ with BD CBA on Cytek Aurora.

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